

CLAIMS

1. Implant for fixing adjacent bone plates, in particular cranial bone plates, comprising:
 - an inner abutment element by means of which a separation gap between the bone plates can be overlapped at a bone plate inner side;
 - an outer abutment element for overlapping the separation gap at a bone plate outer side lying opposite the bone plate inner side;
 - and
 - at least one tension band being guided displaceably through the outer abutment element, by means of which, when a tensile stress is exerted, the inner abutment element and the outer abutment element are mutually braceable;
 - wherein the at least one tension band is fixable on the outer abutment element.
2. Implant according to claim 1, wherein the width of the at least one tension band is greater than its height.
3. Implant according to claim 1, wherein the width of the at least one tension band is in the region of between 25% and 75% of a width dimension of an abutment element.
4. Implant according to claim 1, wherein the at least one tension band is of a bendable design.
5. Implant according to claim 1, wherein the at least one tension band is held on the inner abutment element.

6. Implant according to claim 5, wherein the at least one tension band is fastened to the inner abutment element.
7. Implant according to claim 5, wherein a tension band is passed through the inner abutment element.
8. Implant according to claim 7, wherein the tension band is held on the inner abutment element by means of a tension band bend.
9. Implant according to claim 7, wherein the inner abutment element has two spaced-apart openings for passing the tension band through.
10. Implant according to claim 9, wherein the openings are disposed and designed in such a way that a first tension band region and a second tension band region, between which a tension band bend is formed and which are fed through the separation gap, are alignable substantially parallel to one another.
11. Implant according to claim 9, wherein the openings are disposed substantially mirror-symmetrically relative to a center of the inner abutment element.
12. Implant according to claim 9, wherein the spacing of the openings is less than an eighth of a width dimension of the inner abutment element.
13. Implant according to claim 9, wherein edges of the openings are rounded off.

14. Implant according to claim 1, wherein the outer abutment element has one or more openings, through which a respective longitudinal end of a tension band is passable.
15. Implant according to claim 14, wherein an opening has a deflection edge for deflecting a tension band, so that a tensile force is exerable upon the tension band transversely of a direction of spacing between inner abutment element and outer abutment element.
16. Implant according to claim 15, wherein the deflection edge is rounded off.
17. Implant according to claim 14, wherein the opening or openings are disposed and designed in such a way that the at least one tension band is positioned substantially at right angles to the abutment elements in the separation gap.
18. Implant according to claim 1, wherein a tensile force with a transverse component in a first direction is exerable upon a first tension band end and a tensile force with a transverse component in an opposite direction is exerable upon a second tension band end.
19. Implant according to claim 18, wherein the first tension band end and the second tension band end are formed on the same tension band.
20. Implant according to claim 1, wherein the at least one tension band is hookable in relative to the outer abutment element.
21. Implant according to claim 20, wherein one or more hook elements are provided for fixing the at least one tension band.

22. Implant according to claim 21, wherein a hook element has an inclined flank and a steep flank, wherein the steep flank is arranged facing a pulling end of the at least one tension band.
23. Implant according to claim 20, wherein the hook element or elements are disposed on the outer abutment element.
24. Implant according to claim 23, wherein a row of spaced-apart hook elements is provided.
25. Implant according to claim 23, wherein the hook element or elements are disposed on an outer surface of the outer abutment element.
26. Implant according to claim 25, wherein hook tips are directed away from an outer surface of the outer abutment element.
27. Implant according to claim 23, wherein the hook element or elements are disposed in an opening for passing the at least one tension band through.
28. Implant according to claim 27, wherein hook tips are orientated transversely of a direction of spacing between inner abutment element and outer abutment element.
29. Implant according to claim 20, wherein a fixation cap is provided for mounting onto the outer abutment element, wherein the tension band is fixable between the outer abutment element and the fixation cap.

30. Implant according to claim 29, wherein the fixation cap comprises a bridge element, which is insertable into the separation gap.
31. Implant according to claim 30, wherein the bridge element is insertable between opposite-lying tension band regions into the separation gap.
32. Implant according to claim 30, wherein formed on the bridge element are transverse tabs, which are elastically movable relative to the outer abutment element transversely of the direction of spacing between inner abutment element and outer abutment element.
33. Implant according to claim 29, wherein the fixation cap and/or the outer abutment element is provided with one or more hook elements and the outer abutment element and/or the fixation cap is provided with corresponding openings for receiving the hook element or elements.